

ISO-GE

DeSOTO, INC.

MATERIAL SAFETY DATA SHEET

NPCA 1-72

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

SECTION I

DeSOTO, INC.

Administrative and Research Center

1700 South Mt. Prospect Road  
Des Plaines, Illinois 60018

Emergency Telephone 312-391-9000

Product Class POLYISOCYANATE

Manufacturers Code Identification

910 X 730

Trade Name SUPER DESOTHANE ACTIVATOR

Date of Prep 2/05/83

Supersedes 9/11/79 MSDS

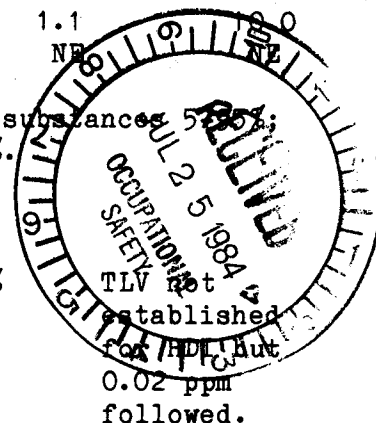
\*\*\*\*\* SECTION II-HAZARDOUS INGREDIENTS \*\*\*\*\*

INGREDIENT	PERCENT* BY WEIGHT	PPM	TLV MG/M <sup>3</sup>	LEL	VAPOR PRESSURE @20° C.
Methyl Ethyl Ketone	30	200	590	1.8	70.0
2-Ethoxyethyl Acetate-Skin**	10	50	270	1.8	2.0
Xylene - Skin	10	100	435	1.1	8.0
Aliphatic Polyisocyanate***	50	NE	NE	NE	NE

\* Percent By Weight: To nearest 5%, plus or minus 5%, for substances 5-25%;  
<5.0 for substances 0.5-5%; <0.5 for substances 0.0-0.5%.

\*\*ACGIH notice of intended change, 1982: TLV-TWA = 5 ppm.

\*\*\*Hexamethylene diisocyanate (HDI) content less than 0.7%  
based on resin solids at time of manufacture. However,  
after 3 to 6 months storage, the free monomer content  
may rise to a maximum of 1.6%.



NE = Not Established

NA = Not Applicable

\*\*\*\*\* SECTION III-PHYSICAL DATA \*\*\*\*\*

PROPERTY	MEASUREMENT
Boiling Range	176-313° F. 80-157° C. @760 MM Hg
Vapor Density	X Heavier Lighter Than Air
Weight Per Gallon	8.1 Lbs.
Percent Volatile By Volume	54.2
Evaporation Rate	Faster X Slower Than Ether

\*\*\*\*\* SECTION IV-FIRE AND EXPLOSION DATA \*\*\*\*\*

DOT Category        FLAMMABLE LIQUID  
OSHA Category      FLAMMABLE LIQUID    CLASS 1B  
Flash Point (Closed Cup)            22° F.  
                                     -5.6° C.

Lower Explosive Limit            See II

EXTINGUISHING MEDIA: Use National Fire Protection Association Class B extinguishers (carbon dioxide, dry chemical or foam).

UNUSUAL FIRE AND EXPLOSION HAZARDS: During a fire irritating and/or toxic gases and aerosols from the decomposition/combustion products may be present.

SPECIAL FIRE FIGHTING PROCEDURES: Full emergency equipment should be worn. Spray drums of material involved in fire but not themselves on fire with water to minimize risk of rupture. Wear NIOSH approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

\*\*\*\*\* SECTION V-HEALTH HAZARD DATA \*\*\*\*\*

THRESHOLD LIMIT VALUE: See II (Not Established for Product.)

EFFECTS OF OVEREXPOSURE: Inhalation: Anesthetic. Irritation of the respiratory tract or acute nervous system depression characterized by headache, dizziness, staggering gait, confusion, unconsciousness or coma.

Inhalation of isocyanates can cause allergic sensitization. Symptoms may include mucous membrane irritation, tightness of chest, irritation of respiratory tract, coughing, headache and shortness of breath. Asthma-like attacks may follow.

SKIN OR EYE CONTACT: Primary Irritation. Skin sensitization possible.

OTHER HEALTH EFFECTS: Reproductive and blood disorders and birth defects have been observed in tests on laboratory animals with 2-methoxyethanol, 2-ethoxyethanol and 2-ethoxyethyl acetate. Because this product contains at least one of these solvents, handling precautions as outlined in sections VIII and IX should be carefully followed to avoid overexposure.

EMERGENCY AND FIRST AID PROCEDURES: Inhalation: Remove from exposure. Restore breathing. Keep warm and quiet. Notify a physician. Skin Contact: Wash affected areas with water. Remove contaminated clothing. Consult a physician. Eye Contact: Flush with water for 15 minutes. Consult a physician. Ingestion: Consult a physician.

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## \*\*\*\*\* SECTION VI-REACTIVITY DATA \*\*\*\*\*

STABILITY: Unstable X Stable

INCOMPATABILITY (Materials to Avoid): Avoid contact with water, alcohols, amines, and other materials which react with isocyanates.

HAZARDOUS DECOMPOSITION PRODUCTS: By fire CO<sub>2</sub>, CO, Oxides of Nitrogen, possibility of cyanides.

Hazardous Polymerization May occur X Will not occur

Conditions to Avoid:

## \*\*\*\*\* SECTION VII-SPILL OR LEAK PROCEDURES \*\*\*\*\*

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Cover the spill with absorbent material, such as sand, sweeping compound or diatomaceous earth; collect material in open top drum and take to isolated area, out of doors preferred, fill drum with water; neutralize spill area with dilute solution of ammonium hydroxide.

WASTE DISPOSAL METHOD: Waste material can be incinerated or disposed of in accordance with Federal, State or Local regulations regarding environmental control after allowing time for reaction with water.

## \*\*\*\*\* SECTION VIII-SPECIAL PROTECTION INFORMATION \*\*\*\*\*

RESPIRATORY PROTECTION: Use a respirator that is approved or recommended for use in isocyanate containing environments (air purifying or fresh air supplied)

VENTILATION: Where employees may be exposed, provide general dilution or local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients in Section II below recommended (ACGIH) or regulated (OSHA) limit. Where employees will not be exposed, keep LEL in Section II below 25% of limit.

PROTECTIVE GLOVES: Recommended X Required

EYE PROTECTION: Splash proof goggles.

OTHER PROTECTIVE EQUIPMENT: A safety shower, an eye bath, and washing facilities should be available.

## \*\*\*\*\*SECTION IX-SPECIAL PRECAUTIONS\*\*\*\*\*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from heat, sparks, and open flame. Store in tightly closed container and protect from moisture and foreign materials. At max. storage temperature noted, material may slowly polymerize without hazard. Ideal storage temperature range is 10°C. - 27°C. (50°F. - 81°F.)

OTHER PRECAUTIONS: Prevent prolonged skin contact with contaminated clothing.

Prepared by:  
R. A. Prokop